

Title	Carry out cathodic protection system monitoring in a gas network		
Level	4	Credits	6

Purpose	People credited with this unit standard are able to: select, prepare and use cathodic protection monitoring equipment; and carry out and report on a cathodic protection survey in a gas network.
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Classification	Gas Industry > Gas Network Construction
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Available grade	Achieved
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Prerequisites	Unit 32036, <i>Demonstrate knowledge of cathodic protection and carry out a reading in a gas network</i> , or demonstrate equivalent knowledge and skills.
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Guidance Information

- 1 This unit standard is intended for, but is not limited to, workplace assessment. The range statements relate to enterprise specific equipment, procedures, and processes.
- 2 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable manufacturer's specifications, company procedures and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 3 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of:
Health and Safety at Work Act 2015;
Resource Management Act 1991;
AS/NZS 4645.1:2018 *Gas distribution networks – Network management*;
AS/NZS 2885.1-2018 *Pipelines – Gas and liquid petroleum Design and construction*;
AS 2885.3-2012 *Pipelines – Gas and liquid petroleum Operation and maintenance*;
AS 2832.1-2015 *Cathodic protection of metals part 1: Pipes and cables*;
and any subsequent amendments and replacements.
- 4 References
Australian standards (AS) may be found at www.standards.org.au;
Australian/New Zealand standards (AS/NZS) may be found at www.standards.govt.nz.

- 5 Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 6 **Definition**
Company procedures mean the documented methods for performing work activities, and include health and safety, operational, environmental, and quality management requirements. They may refer to legislation, regulations, guidelines, standard operating procedures, manuals, codes of practice, or policy statements.

Outcomes and performance criteria

Outcome 1

Select, prepare and use cathodic protection monitoring equipment in a gas network.

Performance criteria

- 1.1 Cathodic protection monitoring equipment is selected according to survey requirements.
- Range may include – copper sulphate half-cell, multi-meter, data logger, cathodic protection system interruption device, direct current voltage gradient meter, flange isolation tester, current measuring clamps, class 0 gloves, equipotential mat.
- 1.2 Cathodic protection equipment is checked for suitability.
- Range may include – test certificate, certification, identification tags, labels, copper sulphate half-cell condition.
- 1.3 Cathodic protection monitoring equipment is operated safely and potential hazards of incorrect use and application are identified.
- Range equipment – copper sulphate half-cell, multi-meter; equipment may include – interrupter, logger; hazards may include – under protection, over protection; induction or electrical interference.

Outcome 2

Carry out and report on a cathodic protection survey.

Performance criteria

- 2.1 Cathodic protection survey scope and reporting criteria are determined.
- Range on-potential, off-potential, polarised potential.
- 2.2 Cathodic protection survey is carried out in accordance with survey scope.

- 2.3 Results are recorded and any deviations from the expected range of results are investigated and reported.
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Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 February 2020	N/A
Rollover	2	30 January 2025	N/A

Consent and Moderation Requirements (CMR) reference	0014
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.